



PATENT - - FEE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

KATHLEEN S. KEEGAN ET AL.

Patent No. 7,067,506

Issued: June 27, 2006

Serial No. 10/087,715

Filed: March 1, 2002


For: COMPOUNDS USEFUL FOR  
INHIBITING Chk1

Attorney Docket No. 27866/37081A

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Dated: November 1, 2006

  
James J. Napoli  
Registration No. 32,361  
Attorney for Applicants

REQUEST FOR CERTIFICATE OF  
CORRECTION UNDER RULES 322(a) & 323

11/07/2006 MBIZUNES 00000041 7067506

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

01 FC:1811

100.00 OP

Sir:

Patentees respectfully request a Certificate of Correction to be issued for the above-identified U.S. Patent correcting the patent as noted in the attached "Certificate of Correction" form PTO 1050. Duplicate copies of the form are attached hereto.

Errors in the patent can be verified by reference to the application as follows:

**Certificate**  
NOV 08 2006  
**of Correction**

NOV 09 2006

Appln. Page #	Appln. Line #	Column #	Line #	Error by
6	20	3	36	PTO
8	31-32	4	40	PTO
8	33-34	4	42	PTO
9	4-5	4	47	PTO
14	10	6	64	PTO
14	10-11	6	65-66	PTO
14	12	6	last line	PTO
14	22-23	7	10-11	PTO
14	24	7	12	PTO
18	1	8	49	PTO
20	4-5	9	50	PTO
22	10-11	10	53	PTO
22	12	10	54-55	PTO
24	32	11	47	PTO
25	26	12	8	PTO
26	19-20	12	38	PTO
28	10	13	19	PTO
28	16-17	13	26	PTO
28	18	13	27	PTO
29	15-16	13	55-56	PTO
29	23	13	64	PTO
29	25	13	65	PTO
29	26	13	66-67	PTO
29	27	13	67	PTO
30	14-15	14	21	PTO
30	18	14	24	PTO
30	18	14	25	PTO
30	25-26	14	31	PTO
31	1-2	14	41	PTO
39	21	18	28	PTO
40	27	18	62	PTO
40, 41	last line on 40 to 1st line on 41	duplicate of Column 18, line 40 to Column 19, line 2		PTO
43	20-22	20	41-43	Applicants
43	23-24	20	44	PTO
43	29	20	49	Applicants
45	11-12	21	24	PTO
45	16	21	28	PTO
46	15	21	57	PTO
47	31	22	36	PTO
81	10	69	10	PTO

Appln. Page #	Appln. Line #	Column #	Line #	Error by
82	1	69	33	PTO
82	23	69	54	Applicants
86	line starting with Compound 12	72	line starting with Compound 12	Applicants
86	22-23	73	29	PTO
87	2	73	33	Applicants
87	16	73	57	PTO
87	25	73	65	Applicants
88	13-14	74	18	PTO
89	32	74	62	Applicants
90	1	74	65	Applicants
90	31	75	29	PTO
91	32	75	65	Applicants
94	13-14	77	24	PTO
95	15	77	56	PTO
96	29	78	28	PTO
98	32	79	33	Applicants
98	32	79	34	Applicants
98	36	79	37	Applicants
99	23	79	62	Applicants
99	24	79	62	PTO
99	24	79	63	Applicants
100	1-2 of Step 1	80	17	PTO
100	second from last line	81	19	PTO
101	2	81	23	PTO
101	5	81	27	PTO
101	line 5 in Compound 168	81	49	PTO
101	line 4 in Compound 169	82	2	PTO
102	line 3 in Compound 173	83	17	PTO
103	line 2 of Compound 175	83	59	PTO
103	lines 5-6 of Compound 176	84	20	PTO
103	line 6 of Compound 176	84	21	PTO
104	line 4 of Compound 178	84	66	PTO
104	line 6 of Compound 178	85	1	PTO
104	line 6 of Compound 180	85	49	PTO
105	line 5 of Compound 183	86	46-47	PTO
106	line 3 of Compound 185	87	19	PTO
106	caption under structure	87	38	PTO

Appln. Page #	Appln. Line #	Column #	Line #	Error by
106	caption under structure	87	39	PTO
106	line 3 of Compound 186	87	41	PTO
107	line 5 in ¶ Step 1	88	23	PTO
107	line 5 in ¶ Step 3	88	46	PTO
109	caption under structure	91	23	PTO
110	2	91	65	PTO
113	line 2 of ¶ Step 2	96	19	PTO
113	line 6 of ¶ Step 3	96	42	PTO
117	line 5 of Compound 216	101	4	PTO
117	line 7 of Compound 216	101	5	PTO
119	line 6 of Compound 223	103	62	PTO
120	line 8 of Compound 226	105	30	PTO
121	line 5 of ¶ Step 2	106	32	PTO
122	caption under Compound 229	107	29	PTO
122	line 6 of ¶ Step 2	107	58	PTO
122	lines 5-6 of ¶ Step 3	107	last line	PTO
123	line 4 of ¶ Step 2 (the first Step 2 on the page)	108	49	PTO
123	line 7 of ¶ Step 1 (the second Step 1 on the page)	109	30	PTO
123	lines 1-2 in the second ¶ Step 2 on the page	109	38	PTO
124	5	109	55	PTO
124	7	109	57-58	PTO
124	second line from bottom of page	110	66	PTO
125	5	111	9	PTO
125	5	111	9	Applicants
125	line 1 in ¶ after Step 3, (first occurrence)	111	30	PTO
125	line 3 of ¶ Step 3 (second occurrence)	112	8	PTO
126	line 7 in ¶ Step 5	112	43	PTO

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Appln. Page #	Appln. Line #	Column #	Line #	Error by
127	3	113	48	PTO
127	line 10 in ¶ Step 1 (first occurrence)	113	62	PTO
127	line 7 of ¶ Step 4	114	46	PTO
128	5	115	20-21	Applicants
128	line 7 of ¶ Step 2	115	35	PTO
128	line 7 of ¶ Step 4	116	1	PTO
128	line 8 of ¶ Step 4	116	2	PTO
129	line 2 of Compound 238	117	28	PTO
130	line 3 in ¶ beneath structure of Compound 240	118	29	PTO
130	line 4 in ¶ beneath structure of Compound 240	118	29	PTO
130	line 4 in ¶ beneath structure of Compound 240	118	29-30	PTO
130	line 4 in ¶ beneath structure of Compound 240	118	30	PTO
130	lines 4-5 in ¶ beneath structure of Compound 240	118	31	PTO
130	line 3, 2nd ¶ beneath structure of Compound 241	118	65-66	PTO
131	line 1 of 2nd ¶ beneath structure of Compound 244	120	30	PTO
132	line 1 of 2nd ¶ beneath structure of Compound 245	120	65	PTO
132	line 1 of 2nd ¶ beneath structure of Compound 246	121	29	PTO
132	line 2 of 2nd ¶ beneath structure of Compound 247	121	65-65	PTO
132	line 2 of 2nd ¶ beneath structure of Compound 247	121	66	PTO

Appln. Page #	Appln. Line #	Column #	Line #	Error by
133	line 1 of 2nd ¶ beneath structure of Compound 249	122	63	PTO
133	line 2 of 2nd ¶ beneath structure of Compound 249	122	64-65	PTO
134	line 2	123	29-30	PTO
134	line 1 of 2nd ¶ beneath structure of Compound 252	124	25	PTO
134	line 2 of 2nd ¶ beneath structure of Compound 252	124	26	PTO
134	line 2 of 2nd ¶ beneath structure of Compound 252	124	27	PTO
135	line 4 of ¶ Step 3	125	16	PTO
136	caption under Compound 256	126	55	PTO
137	2	127	28	PTO
138	line 2 in 2nd ¶ beneath structure of Compound 261	129	31	PTO
138	second to last line	130	31	PTO
140	line 2 of 3rd ¶	132	9-10	PTO
140	line 2 of 3rd ¶	132	11	PTO
141	line 2 of ¶ 3 of Compound 269	133	40	PTO
142	line 2 of ¶ 3 of Compound 271	134	34	PTO
143	line 3 of ¶ 3 of Compound 273	135	33	PTO
143	line 1 of ¶ 1 of Compound 275	136	21	PTO
144	caption under structure of Compound 276	136	52	PTO
144	Compound 277	137	277	PTO
145	line 2 in ¶ 1 of Compound 279	138	26	PTO
145	line 2 in ¶ 1 of Compound 280	138	64	PTO
145	line 3 in ¶ 1 of Compound 280	138	65	PTO

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Appln. Page #	Appln. Line #	Column #	Line #	Error by
145	line 4 in ¶ 1 of Compound 280	138	67	PTO
146	lines 2-3 of ¶ 1 of Compound 282	139	65	PTO
146	lines 3-4 of ¶ 1 of Compound 282	139	67	PTO
147		141	35	PTO
149	9	143	40	PTO
149	lines 3-4 in ¶ Step 1 of Compound 291	144	28	Applicants
149	line 5 in ¶ Step 1 of Compound 291	144	30	PTO
149	line 5 in ¶ Step 1 of Compound 291	144	31	PTO
150	8	144	55	PTO
150	line 8 of ¶ Step 4	145	15-16	PTO
151	6	146	9	PTO
151	6	146	9	PTO
151	line 8 in ¶ Step 2	146	61	PTO
151	line 8 in ¶ Step 2	146	61	PTO
151	line 9 in ¶ Step 2	146	63	PTO
152	2	147	24	PTO
152	2	147	24-25	PTO
152	3	147	25	PTO
152	line 7 in ¶ Step 2	148	6	PTO
153	line 1 in ¶ Step 2	149	61	PTO
154	structure of Compound 298	151	Compound 298	PTO
155	line 8 in ¶ Step 5	152	62	PTO
156	4	154	4	PTO
160	1	159	6	PTO
161	line 4 of ¶ Step 3	161	4	PTO
161	line 3 of ¶ Step 5	161	25	PTO
162	4	161	49	PTO
162	line 1 in ¶ under Compound 317	162	23	PTO
162	line 3 in ¶ under Compound 317	162	27	PTO
163	4	162	65	PTO

Appln. Page #	Appln. Line #	Column #	Line #	Error by
163	line 1 in ¶ Step 1 under Compound 321	163	64	PTO
166	line 1 in ¶ Step 1 under Compound 328	167	56	PTO
168	structure at top of page	169	structure for Compound 331	PTO
169	structure for Compound 334	170	structure between lines 40-50	PTO
170	1	171	45	PTO
170	line 7 in ¶ Step 3	172	30	PTO
171	7	173	21	Applicants
171	line 76 in ¶ Step 3 of Compound 338	174	13-14	Applicants
172	11	174	64	PTO
174	line 2, ¶ 2, in ¶ Step 3	177	37	PTO
175	3	178	67	PTO
176	line 3 in ¶ under Compound 347	180	46	PTO
176	line 2 in ¶ under Compound 348	180	65	PTO
178	line 1 in ¶ under Compound 354	182	61	PTO
178	line 3 in ¶ under Compound 354	182	65	PTO
180	structure for Compound 361	185	Compound 361	PTO
181	line 1 in ¶ under Compound 364	186	39	PTO
181	line 3 in ¶ under Compound 364	186	42	PTO
184	21	188	33	PTO
184	24	188	35	Applicants
185	28	189	4	Applicants
186	19	189	27	PTO
187	14	189	56	Applicants
187	19	189	60	Applicants
189	3	190	37	Applicants
192	31	192	16	PTO
Amd. C dated 12/3/04	last line, page 2	192	60	PTO
Amd. C dated 12/3/04	line 5 on page 6	194	3	PTO
Amd. C dated 12/3/04	line 10 on page 7	194	33	PTO

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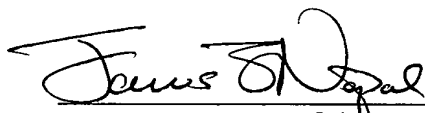


Appln. Page #	Appln. Line #	Column #	Line #	Error by
Amd. C dated 12/3/04	line 19 on page 8	195	17	Applicants
Amd. C dated 12/3/04	line 5 on page 9	195	23	PTO
Amd. C dated 12/3/04	line 3 of claim 9 on page 10	195	59	PTO
Amd. C dated 12/3/04	line 7 of claim 11 on page 12	196	53	PTO
Amd. C dated 12/3/04	line 13 of claim 17 on page 15	197	34	PTO
Amd. C dated 12/3/04	line 6 on page 18	198	32	PTO
Amd. C dated 12/3/04	line 20 on page 19	199	8	PTO
Amd. C dated 12/3/04	line 1 on page 25	202	40	PTO
Amd. C dated 12/3/04	line 11 on page 27	203	35	PTO

Our check in the amount of \$100.00 to correct the error(s) by patentee(s) is submitted herewith.

Respectfully submitted,

**MARSHALL, GERSTEIN & BORUN LLP**

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Chicago, Illinois  
November 1, 2006

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.  
(Also Form PTO-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,067,506  
DATED : June 27, 2006  
INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, line 36, "199,7;" should be -- 1997; --

Column 4, line 40, "C<sub>1-3</sub>alkylene-heteroaryl" should be  
-- C<sub>1-3</sub>alkyleneheteroaryl --

Column 4, line 42, "C<sub>1-3</sub>alkylene-N(R<sup>4</sup>)<sub>2</sub>" should be  
-- C<sub>1-3</sub>alkyleneN(R<sup>4</sup>)<sub>4</sub> --

Column 4, line 47, "C<sub>1-3</sub>-alkylenearyl" should be  
-- C<sub>1-3</sub>alkylenearyl --

Column 6, line 64, "R<sup>16</sup>" should be -- OR<sup>16</sup> --

Column 6, lines 65-66, "N(R<sup>15</sup>)COR<sup>16</sup>N(R<sup>15</sup>)C(O)OR<sup>16</sup>" should be  
-- N(R<sup>15</sup>)COR<sup>16</sup>N(R<sup>15</sup>)C(O)OR<sup>16</sup> --

Column 6, last line, "N(R<sup>1-6</sup>) . . ." should be -- N(R<sup>16</sup>) . . . --

Column 7, lines 10-11, "C<sub>1-3</sub>alkyleneC<sub>3-6</sub>heterocycloalkyl" should be  
-- C<sub>1-3</sub>alkyleneC<sub>3-8</sub>heterocycloalkyl --

Column 7, line 12, ". . . N(R<sup>17</sup>)<sub>3</sub>." should be -- . . . N(R<sup>17</sup>)<sub>3</sub><sup>+</sup> --

MAILING ADDRESS OF SENDER:  
James J. Napoli, Ph.D.  
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233 S. Wacker Drive, Suite 6300  
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Chicago, Illinois 60606-6357

PATENT NO.: 7,067,506

No. of additional copies: 1

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,067,506  
 DATED : June 27, 2006  
 INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8, line 49, "R<sup>1</sup>" should be -- R<sup>2</sup> --

Column 9, line 50, "N(R<sup>24</sup>)-C(O)" should be -- N(R<sup>24</sup>)C(O) --

Column 10, line 53, "N(R<sup>25</sup>)-C(O)C<sub>1-3</sub> . . ." should be  
 -- N(R<sup>25</sup>)C(O)C<sub>1-3</sub> . . . --

Column 10, lines 54-55, "N(R<sup>25</sup>)C(O)CC<sub>1-3</sub> . . ." should be  
 -- N(R<sup>25</sup>)C(O)C<sub>1-3</sub> . . . --

Column 11, line 47, "C(O)R<sup>7</sup><sub>1</sub>" should be -- C(O)R<sup>7</sup>, --

Column 12, line 8, "C-R<sub>10</sub>" should be -- C-R<sup>10</sup> --

Column 12, line 38, ". . . (R<sup>2</sup>)-C(O) . . ." should be  
 -- . . . (R<sup>12</sup>)C(O) . . . --

Column 13, line 19, "N(R<sup>13</sup>)C(o)OR<sup>7</sup>" should be -- N(R<sup>13</sup>)C(O)OR<sup>7</sup> --

Column 13, line 26, "C<sub>1-3</sub>alkyleneN(R<sub>1-2</sub>) . . ." should be  
 -- C<sub>1-3</sub>alkyleneN(R<sup>12</sup>) . . . --

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Column 13, line 27, ". . . alkyleneOR<sup>12</sup>," should be  
 -- . . . alkyleneOR<sup>2</sup>, --

Column 13, lines 55-56, "N(R<sup>16</sup>)C(O)C,alkyleneC(O) R<sup>16</sup>" should be  
 -- N(R<sup>16</sup>)C(O)C<sub>1-3</sub>alkyleneC(O)R<sup>16</sup> --

Column 13, line 64, "C<sub>16</sub>alkyl" should be -- C<sub>1-6</sub>alkyl --

Column 13, line 65, "SO<sub>2</sub>R<sup>7</sup>" should be -- SO<sub>2</sub>R<sup>17</sup> --

Column 13, lines 66-67, "C<sub>1-3</sub>alkyleneC<sub>1-3</sub>,heterocycloalkyl"  
 should be -- C<sub>1-3</sub>alkyleneC<sub>3-8</sub>heterocycloalkyl --

Column 13, line 67, "C<sub>1-3</sub>alkyleneSOaryl" should be  
 -- C<sub>1-3</sub>alkyleneSO<sub>2</sub>aryl --

Column 14, line 21, "bicyclo-[3.2.1]octyl" should be  
 -- bicyclo[3.2.1]octyl --

Column 14, line 24, "(N(R<sub>a</sub>)<sub>2</sub>)" should be -- (N(R<sup>a</sup>)<sub>2</sub>) --

Column 14, line 25, "(SO<sub>2</sub>R<sub>a</sub>)" should be -- (SO<sub>2</sub>R<sup>a</sup>) --

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Column 14, line 31, delete the comma after "Heterocycloalkyl"

Column 14, line 41, delete the hyphen between "alkylene" and "heteroaryl"

Column 18, line 28, delete the "I" before "Suitable"

Column 19, lines 2-31, delete lines starting with "structural" on line 2 through "This concentration is defined as" on lines 30-31

Column 18, line 62, the paragraph starring with "Theoretical" should be a continuation of the previous paragraph, not a new paragraph.

Column 20, lines 41-43, the phrase "growth related protein," is repeated four times, delete all but one of these occurrences

Column 20, line 44, delete the "\*" from between "growth" and "factor"

Column 20, line 49, delete second occurrence of "nerve growth factor"

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Column 21, line 24, "orchemotherapy" should be -- or chemotherapy --

Column 21, line 28, delete the hyphen between "administered" and "before"

Column 21, line 57, delete the period after "that"

Column 22, line 36, delete the dash between "5-fluorouracil" and "(5-FU)"

Column 69, line 10, "(5.8 9;" should be -- (5.8 g; --

Column 69, line 33, "Step (4): Lithium Hydroxide Hydrolysis Procedure" should be a new heading

Column 69, line 54, "aminioethyl" should be -- aminoethyl --

Column 72, under the heading "Characterization" line starting with "12" "Mhz" both occurrences, should be -- MHz --

Column 73, line 29, delete the hyphen in "dimethoxy-ethane"

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Column 73, line 33, "Mhz" should be -- MHz --

Column 73, line 57, "2--" should be -- 2- --

Column 73, line 65, "Mhz" should be -- MHz --

Column 74, line 18, "iso-cyanate" should be -- isocyanate --

Column 74, line 62, "Mhz" should be -- MHz --

Column 74, line 65, "Mhz" should be -- MHz --

Column 75, line 29, "J 8.8" should be -- J=8.8 --

Column 75, line 65, "(10.16-10.06, m, 3H)" should be  
-- 10.16-10.06 (m, 3H) --

Column 77, line 24, "iso-cyanate" should be -- isocyanate --

Column 77, line 56, "H<sub>2</sub>in" should be -- H<sub>2</sub> in --

Column 78, line 28, "vacac" should be -- vacuo --

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Column 79, line 33, "7.43 (d" should be -- 7.43 (d --

Column 79, line 34, "7.09 (dd," should be -- 7.09 (dd --

Column 79, line 37, "1.10 (m," should be -- 1.10 (m, --

Column 79, line 62, "8.03 (d," should be -- 8.03 (d, --

Column 79, line 62, "7.47, (d," should be -- 7.47 (d, --

Column 79, line 63, "7.04 (dd," should be -- 7.04 (dd, --

Column 80, line 17, "3methoxybenzoic" should be  
-- 3-methoxybenzoic --

Column 81, line 19, "300 mL" should be -- 300  $\mu$ L --

Column 81, line 23, "H2O" should be -- H<sub>2</sub>O --

Column 81, line 27, "3.97 (s." should be -- 3.97 (s, --

Column 81, line 49, "7.23 (i," should be -- 7.23 (m, --

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Column 82, line 2, "8.22 (d" should be -- 8.22 (d, --

Column 83, line 17, delete the comma between "using" and "2"

Column 83, line 59, "N-(H" should be -- N-(1H --

Column 84, line 20, "7.05 (d 3H), 3.56" should be  
-- 7.05 (dd, 1H), 6.98 (dd, 1H), 3.97 (s, 3H), 3.56 --

Column 84, line 21, "(in," should be -- (m, --

Column 84, line 66, "7.51 s" should be -- 7.51 (s --

Column 85, line 1, "(in," should be -- (m, --

Column 85, line 49, "2.41 (m" should be -- 2.41 (m, --

Column 86, lines 46-47 "3.05 (m (m." should be -- 3.05 (m, --

Column 87, line 19, "<sup>3</sup>-morpholin" should be -- 3-morpholin --

Column 87, line 38, "<sup>3</sup>-Methoxy" should be -- 3-Methoxy --

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PATENT NO.: 7,067,506

No. of additional copies: 1

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,067,506  
DATED : June 27, 2006  
INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 87, line 39, "<sup>4</sup>-(<sup>3</sup>-pyrazin" should be -- 4-(3-pyrazin --

Column 87, line 41, "<sup>3</sup>-(<sup>4</sup>-methyl" should be -- 3-(4-methyl --

Column 88, line 23, "IN" should be -- 1N --

Column 88, line 46, "(IN)" should be -- (1N) --

Column 91, line 23, "pyridin4" should be -- pyridin-4 --

Column 91, line 65, "<sup>1</sup>H)" should be -- 1H) --

Column 96, line 19, "trifluorace" should be -- trifluoroacetic acid --

Column 96, line 42, "6 8.79" should be --  $\delta$  8.79 --

Column 101, line 4, "2.39 (m, 2.24" should be -- 2.39 (m, 2H), 2.24 --

Column 101, line 5, "mile" should be -- m/e --

Column 103, line 62, "8.32 (d, 1H," should be -- 8.32 (d, 1H), --

Column 105, line 30, "(, 11H)" should be -- (m, 1H) --

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INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 106, line 32, "CH<sub>2</sub>C<sub>12</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub> --

Column 107, line 29, "3methoxy" should be -- 3-methoxy --

Column 107, line 58, "(s, 2H), 2H)," should be -- (s, 2H), --

Column 107, last line, "2H), 7.52 (m, 7H), 489.1." should be -- 2H). MS APCI-pos, M+1=489.1. --

Column 108, line 49, "NH<sub>4</sub>OH," should be -- NH<sub>4</sub>OH, --

Column 109, line 30, "about 1 of" should be -- about 1/2 of --

Column 109, line 38, "mmol) 50" should be -- mmol) in 50 --

Column 109, line 55, "4.33 (, 11H)," should be -- 4.22 (m, 1H), --

Column 109, lines 57-58, "1.70-1.77 (n, 11H)," should be -- 1.70-1.77 (m, 1H), --

Column 110, line 66, "H<sub>2</sub>O" should be -- H<sub>2</sub>O --

Column 111, line 9, "H<sub>2</sub>O" should be -- H<sub>2</sub>O --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 111, line 9, "dried" should be -- dried --

Column 111, line 30, "8.12 (s, 2H)," should be -- 8.12 (s, 1H), --

Column 112, line 8, "22 ml," should be -- 22 mL, --

Column 112, line 43, "S 8.57" should be --  $\delta$  8.57 --

Column 113, line 48, "arid" should be -- and --

Column 113, line 62, "7.65 (d, 1H," should be -- 7.65 (d, 1H), --

Column 114, line 46, "8.39 (d, 1H," should be -- 8.39 (d, 1H), --

Column 115, lines 20-21, "7.39 (M, 1H)," should be -- 7.39 (m, 1H), --

Column 115, line 35, "8.61 (d, 1H," should be -- 8.61 (d, 1H), --

Column 116, line 1, "8.68 (d, 1H," should be -- 8.68 (d, 1H), --

Column 116, line 2, "8.48 (d, 1H," should be -- 8.48 (d, 1H), --

Column 117, line 28, "8.43 (d, 1H," should be -- 8.43 (d, 1H), --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 118, line 29, "8.21 (s, 111)," should be -- 8.21 (s, 1H), --

Column 118, line 29, "7.24 (d, 111)," should be -- 7.24 (d, 1H), --

Column 118, lines 29-30, "6.76 (m, 1H1)," should be -- 6.76 (m, 1H), --

Column 118, line 30, "3.56 (m, 21H)," should be -- 3.56 (m, 2H), --

Column 118, line 31, "2.24 (s, 1H), 2.13 (m, 1H)" should be  
-- 2.24 (s, 6H), 2.13 (m, 2H) --

Column 118, lines 65-66, "2.37 (s, 13H)," should be -- 2.37 (s, 3H), --

Column 120, line 30, "8.66 (d, 1H," should be -- 8.66 (d, 1H), --

Column 120, line 65, "8.26 (d, 1H," should be -- 8.26 (d, 1H), --

Column 121, line 29, "8.66 (d, 1H," should be -- 8.66 (d, 1H), --

Column 121, lines 64-65, "8.33 (d, 1H, 8.00 (d, 1H," should be  
-- 8.33 (d, 1H), 8.00 (d, 1H), --

Column 121, line 66, ".25 (m, 1H)," should be -- 7.25 (m, 1H), --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 122, line 63, "t<sub>16</sub>-DMSO" should be -- d<sub>6</sub>-DMSO --

Column 122, lines 64-65, "8.29 (d, 1H, 8.03 (d, 1H," should be -- 8.29 (d, 1H), 8.03 (d, 1H), --

Column 123, lines 29-30, "8.33 (d, 1H, 8.00 (d, 1H," should be -- 8.33 (d, 1H), 8.00 (d, 1H), --

Column 124, line 25, "8.66 (d, 1H," should be -- 8.66 (d, 1H), --

Column 124, line 26, "8.28 (d, 1H," should be -- 8.28 (d, 1H), --

Column 124, line 27, "7.55 (d, 1H," should be -- 7.55 (d, 1H), --

Column 125, line 16, "20 ml" should be -- 20 mL --

Column 126, line 55, "1-[5-" should be -- 1-{5- --

Column 127, line 28, "6.79 (d, 1H," should be -- 6.79 (d, 1H), --

Column 129, line 31, "6.75 (d, 1H," should be -- 6.75 (d, 1H), --

Column 130, line 31, insert "2.35 (s, 3H)." between "2.38 (s, 3H)" and "LRMS"

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 132, lines 9-10, "7.70 (d, 1H, 7.19 (d, 1H," should be  
-- 7.70 (d, 1H), 7.19 (d, 1H), --

Column 132, line 11, "2.5 (s, 3H)." should be -- 2.35 (s, 3H). --

Column 133, line 40, "6.75 (d, 1H," should be -- 6.75 (d, 1H), --

Column 134, line 34, "3.15 (br d, 1H," should be  
-- 3.15 (br d, 1H), --

Column 135, line 33, "6.79 (d, 1H, 6.75 (d, 1H," should be  
-- 6.79 (d, 1H), 6.75 (d, 1H), --

Column 136, line 21, delete the comma after "and"

Column 136, line 52, "ylmethoxy)5-" should be -- ylmethoxy)-5- --

Column 137, Compound 277, the dashed bond at the top of the structure  
should be a solid bond

Column 138, line 26, "1H NMR" should be -- <sup>1</sup>H NMR --

Column 138, line 64, "8.49 (d, 1H," should be -- 8.49 (d, 1H), --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 138, line 65, "7.65 (d, 1H," should be -- 7.65 (d, 1H), --

Column 138, line 67, "(M4 1)." should be -- (M+1). --

Column 139, line 65, "8.20 (s, 1(dd, 2H)," should be  
-- 8.20 (s, 1H), 8.10 (s, 1H), 6.81 (dd, 2H), --

Column 139, line 67, "2.36 (s, 3H), 2H)." should be  
-- 2.36 (s, 3H), 2.19 (m, 4H), 1.90 (m, 2H). --

Column 141, line 35, "Compound 286" should be a heading

Column 143, line 40, "(M4 1)" should be -- (M+1) --

Column 144, line 28, "to the give the" should be  
-- to give the --

Column 144, line 30, "7.96 (d, 11H)" should be -- 7.96 (d, 1H) --

Column 144, line 31, "11H)" should be -- 1H) --

Column 144, line 55, "3.52 (n,11H)" should be -- 3.52 (m, 1H) --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 145, lines 15-16, "6.65 (dd, 1H, 6.51 (d, 1H, 3.96 (mi, 2H)" should be -- 6.65 (dd, 1H), 6.51 (d, 1H), 3.96 (m, 2H) --

Column 146, line 9, "6.58 (d, 1H," should be -- 6.58 (d, 1H), --

Column 146, line 9, "3.57 (d, 1H," should be -- 3.57 (d, 1H), --

Column 146, line 61, "5 7.92" should be -- 8 7.92 --

Column 146, line 61, "7.08 (dd, 1H," should be -- 7.08 (dd, 1H), --

Column 146, line 63, "(dd, 1H," should be -- (dd, 1H), --

Column 147, line 24, "7.25 (mi, 1H)," should be -- 7.25 (m, 1H), --

Column 147, lines 24-25, "7.18 (d, 1H," should be -- 7.18 (d, 1H), --

Column 147, line 25, "6.70 (d, 1H," should be -- 6.70 (d, 1H), --

Column 148, line 6, after "7.76 (t, 1H)," please insert  
-- 7.61 (5, 1H), --

Column 149, line 61, "2-(2-Aziridin-" should be  
-- 1-[2-(2-Aziridin- --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 161, line 25, "(d, 11)," should be -- (d, 1H), --

Column 161, line 49, after "3.90 (s, 3H)" please insert  
-- 2.30 (s, 3H) --

Column 162, line 23, "-O-" should be -- -3- --

Column 162, line 27, please delete the comma after "with"

Column 162, line 65, "8.26 (s, H)," should be -- 8.26 (s, 1H), --

Column 163, line 64, "-carbatic" should be -- -carbamic --

Column 167, line 56, "(1.0 g)" should be -- (1.0 g, --

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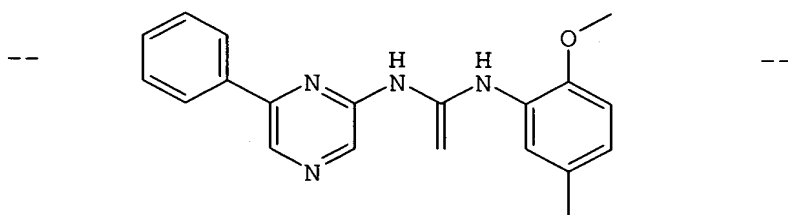
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PATENT NO. : 7,067,506  
DATED : June 27, 2006  
INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 169, please replace the structure for Compound 331 and insert therefor



1 - (2-Methoxy-5-methyl-phenyl) -  
3 - (6-phenyl-pyrazin-2-yl) -urea

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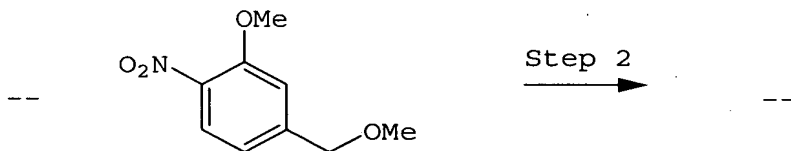
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 171, line 45, after "Step 1" please insert



Column 171, line 52, "Step 1" should be -- Step 3 --

Column 172, line 30, "after "60°C" first occurrence, please insert  
-- before adding 2-methoxy-4-methoxymethylaniline as a solution in 4 mL  
toluene. After stirring for 6 hr --

Column 173, line 21, delete ")." second occurrence

Column 174, lines 13-14, delete "<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ" second  
occurrence

Column 174, line 64, "8.06 (s, 1H," should be -- 8.06 (s, 1H), --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 177, line 37, "and the " should be -- and then --

Column 178, line 67, "(-NH3)" should be -- (-NH<sub>3</sub>) --

Column 180, line 46, "4.G8" should be -- 4,08 --

Column 180, line 65, "J7.83" should be -- J=7.83 --

Column 182, line 61, "Methoxy4" should be -- Methoxy-4 --

Column 182, line 64, "4.23 (," should be -- 4.23 (s, --

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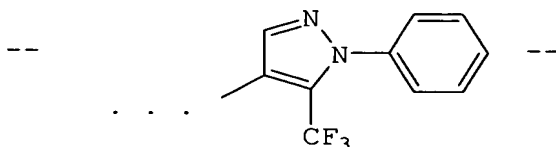
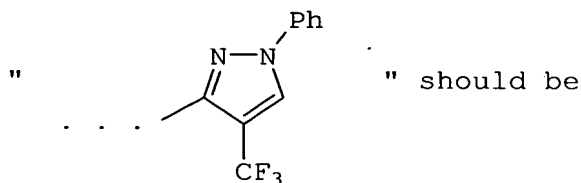
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 185, Compound 361, right-hand side of structure,



Compound 186, line 39, "Methoxy4" should be -- Methoxy-4 --

Column 186, line 42, ";7.89" should be -- 7.89 --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 188, line 33, "The,5'" should be -- The 5' --

Column 188, line 35, "Saint Louis, IL" should be  
-- Saint Louis, MO --

Column 189, line 4, "developed" should be -- develop --

Column 189, line 27, delete the comma between "p38" and "MAP"

Column 189, line 56, "Chk 1" should be -- Chk1 --

Column 189, line 60, "Chk 1" should be -- Chk1 --

Column 190, line 37, "minutes" should be -- minute --

Column 192, line 16, delete the hyphen between "in" and "the"

Column 192, line 60, "CO<sub>2</sub>R<sup>3</sup><sub>1</sub>," should be -- CO<sub>2</sub>R<sup>3</sup>, --

Column 194, line 3, delete "null,"

Column 194, line 33, "C<sub>2</sub>R<sup>25</sup>" should be -- CO<sub>2</sub>R<sup>25</sup> --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 195, line 17, delete "are"

Column 195, line 23, " $C_2R^3$ " should be --  $CO_2R^3$  --

Column 195, line 59, "lease one or more" should be  
-- least one of a --

Column 196, line 53, " $OCF_3$ " should be --  $OCF^3$  --

Column 197, line 34, "Hodgkins, lymphoma" should be  
-- Hodgkin's lymphoma --

Column 198, line 32, " $SR^7_1$ ," should be --  $SR^7$ , --

Column 199, line 8, insert "is" between "Q'" and " $OCH_3$ "

Column 202, line 40, insert -- ( -- before "piperidin

Column 203, line 35, " $CF_{10}$ " should be --  $CR^{10}$  --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, line 36, "199,7;" should be -- 1997; --

Column 4, line 40, "C<sub>1-3</sub>alkylene-heteroaryl" should be  
 -- C<sub>1-3</sub>alkyleneheteroaryl --

Column 4, line 42, "C<sub>1-3</sub>alkylene-N(R<sup>4</sup>)<sub>2</sub>" should be  
 -- C<sub>1-3</sub>alkyleneN(R<sup>4</sup>)<sub>4</sub> --

Column 4, line 47, "C<sub>1-3</sub>-alkylenearyl" should be  
 -- C<sub>1-3</sub>alkylenearyl --

Column 6, line 64, "R<sup>16</sup>" should be -- OR<sup>16</sup> --

Column 6, lines 65-66, "N(R<sup>15</sup>)COR<sup>16</sup>N(R<sup>15</sup>)C(O)OR<sup>16</sup>" should be  
 -- N(R<sup>15</sup>)COR<sup>16</sup>N(R<sup>15</sup>)C(O)OR<sup>16</sup> --

Column 6, last line, "N(R<sup>1-6</sup>) . . ." should be -- N(R<sup>16</sup>) . . . --

Column 7, lines 10-11, "C<sub>1-3</sub>alkyleneC<sub>3-6</sub>heterocycloalkyl" should be  
 -- C<sub>1-3</sub>alkyleneC<sub>3-8</sub>heterocycloalkyl --

Column 7, line 12, ". . . N(R<sup>17</sup>)<sub>3</sub>." should be -- . . . N(R<sup>17</sup>)<sub>3</sub><sup>+</sup> --

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Column 8, line 49, "R<sup>1</sup>" should be -- R<sup>2</sup> --

Column 9, line 50, "N(R<sup>24</sup>)-C(O)" should be -- N(R<sup>24</sup>)C(O) --

Column 10, line 53, "N(R<sup>25</sup>)-C(O)C<sub>1-3</sub> . . ." should be  
 -- N(R<sup>25</sup>)C(O)C<sub>1-3</sub> . . . --

Column 10, lines 54-55, "N(R<sup>25</sup>)C(O)CC<sub>1-3</sub> . . ." should be  
 -- N(R<sup>25</sup>)C(O)C<sub>1-3</sub> . . . --

Column 11, line 47, "C(O)R<sup>7</sup><sub>1</sub>" should be -- C(O)R<sup>7</sup>, --

Column 12, line 8, "C-R<sub>10</sub>" should be -- C-R<sup>10</sup> --

Column 12, line 38, ". . . (R<sup>2</sup>)-C(O) . . ." should be  
 -- . . . (R<sup>12</sup>)C(O) . . . --

Column 13, line 19, "N(R<sup>13</sup>)C(o)OR<sup>7</sup>" should be -- N(R<sup>13</sup>)C(O)OR<sup>7</sup> --

Column 13, line 26, "C<sub>1-3</sub>alkyleneN(R<sub>1-2</sub>) . . ." should be  
 -- C<sub>1-3</sub>alkyleneN(R<sup>12</sup>) . . . --

MAILING ADDRESS OF SENDER:  
 James J. Napoli, Ph.D.  
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 Chicago, Illinois 60606-6357

PATENT NO.: 7,067,506

No. of additional copies: 1

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,067,506  
 DATED : June 27, 2006  
 INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 13, line 27, ". . . alkyleneOR<sup>12</sup>," should be  
 -- . . . alkyleneOR<sup>2</sup>, --

Column 13, lines 55-56, "N(R<sup>16</sup>)C(O)C,alkyleneC(O) R<sup>16</sup>" should be  
 -- N(R<sup>16</sup>)C(O)C<sub>1-3</sub>alkyleneC(O)R<sup>16</sup> --

Column 13, line 64, "C<sub>16</sub>alkyl" should be -- C<sub>1-6</sub>alkyl --

Column 13, line 65, "SO<sub>2</sub>R<sup>7</sup>" should be -- SO<sub>2</sub>R<sup>17</sup> --

Column 13, lines 66-67, "C<sub>1-3</sub>alkyleneC<sub>1-3</sub>,heterocycloalkyl"  
 should be -- C<sub>1-3</sub>alkyleneC<sub>3-8</sub>heterocycloalkyl --

Column 13, line 67, "C<sub>1-3</sub>alkyleneSO<sub>2</sub>aryl" should be  
 -- C<sub>1-3</sub>alkyleneSO<sub>2</sub>aryl --

Column 14, line 21, "bicyclo-[3.2.1]octyl" should be  
 -- bicyclo[3.2.1]octyl --

Column 14, line 24, "(N(R<sub>a</sub>)<sub>2</sub>)" should be -- (N(R<sup>a</sup>)<sub>2</sub>) --

Column 14, line 25, "(SO<sub>2</sub>R<sub>a</sub>)" should be -- (SO<sub>2</sub>R<sup>a</sup>) --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, line 31, delete the comma after "Heterocycloalkyl"

Column 14, line 41, delete the hyphen between "alkylene" and "heteroaryl"

Column 18, line 28, delete the "I" before "Suitable"

Column 19, lines 2-31, delete lines starting with "structural" on line 2 through "This concentration is defined as" on lines 30-31

Column 18, line 62, the paragraph starring with "Theoretical" should be a continuation of the previous paragraph, not a new paragraph.

Column 20, lines 41-43, the phrase "growth related protein," is repeated four times, delete all but one of these occurrences

Column 20, line 44, delete the "\*" from between "growth" and "factor"

Column 20, line 49, delete second occurrence of "nerve growth factor"

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21, line 24, "orchemotherapy" should be -- or chemotherapy --

Column 21, line 28, delete the hyphen between "administered" and "before"

Column 21, line 57, delete the period after "that"

Column 22, line 36, delete the dash between "5-fluorouracil" and "(5-FU)"

Column 69, line 10, "(5.8 9;" should be -- (5.8 g; --

Column 69, line 33, "Step (4): Lithium Hydroxide Hydrolysis Procedure" should be a new heading

Column 69, line 54, "aminioethyl" should be -- aminoethyl --

Column 72, under the heading "Characterization" line starting with "12" "Mhz" both occurrences, should be -- MHz --

Column 73, line 29, delete the hyphen in "dimethoxy-ethane"

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Column 73, line 33, "Mhz" should be -- MHz --

Column 73, line 57, "2--" should be -- 2- --

Column 73, line 65, "Mhz" should be -- MHz --

Column 74, line 18, "iso-cyanate" should be -- isocyanate --

Column 74, line 62, "Mhz" should be -- MHz --

Column 74, line 65, "Mhz" should be -- MHz --

Column 75, line 29, "J 8.8" should be -- J=8.8 --

Column 75, line 65, "(10.16-10.06, m, 3H)" should be  
-- 10.16-10.06 (m, 3H) --

Column 77, line 24, "iso-cyanate" should be -- isocyanate --

Column 77, line 56, "H<sub>2</sub>in" should be -- H<sub>2</sub> in --

Column 78, line 28, "vacac" should be -- vacuo --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 79, line 33, "7.43 (d" should be -- 7.43 (d --

Column 79, line 34, "7.09 (dd," should be -- 7.09 (dd --

Column 79, line 37, "1.10 (m," should be -- 1.10 (m, --

Column 79, line 62, "8.03 (d," should be -- 8.03 (d, --

Column 79, line 62, "7.47, (d," should be -- 7.47 (d, --

Column 79, line 63, "7.04 (dd," should be -- 7.04 (dd, --

Column 80, line 17, "3methoxybenzoic" should be  
-- 3-methoxybenzoic --

Column 81, line 19, "300 mL" should be -- 300  $\mu$ L --

Column 81, line 23, "H<sub>2</sub>O" should be -- H<sub>2</sub>O --

Column 81, line 27, "3.97 (s." should be -- 3.97 (s, --

Column 81, line 49, "7.23 (i," should be -- 7.23 (m, --

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Column 82, line 2, "8.22 (d" should be -- 8.22 (d, --

Column 83, line 17, delete the comma between "using" and "2"

Column 83, line 59, "N-(H" should be -- N-(1H --

Column 84, line 20, "7.05 (d 3H), 3.56" should be  
-- 7.05 (dd, 1H), 6.98 (dd, 1H), 3.97 (s, 3H), 3.56 --

Column 84, line 21, "(in," should be -- (m, --

Column 84, line 66, "7.51 s" should be -- 7.51 (s --

Column 85, line 1, "(in," should be -- (m, --

Column 85, line 49, "2.41 (m" should be -- 2.41 (m, --

Column 86, lines 46-47 "3.05 (m (m." should be -- 3.05 (m, --

Column 87, line 19, "<sup>3</sup>-morpholin" should be -- 3-morpholin --

Column 87, line 38, "<sup>3</sup>-Methoxy" should be -- 3-Methoxy --

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Column 87, line 39, "<sup>4</sup>-(<sup>3</sup>-pyrazin" should be -- 4-(3-pyrazin --

Column 87, line 41, "<sup>3</sup>-(<sup>4</sup>-methyl" should be -- 3-(4-methyl --

Column 88, line 23, "IN" should be -- 1N --

Column 88, line 46, "(IN)" should be -- (1N) --

Column 91, line 23, "pyridin4" should be -- pyridin-4 --

Column 91, line 65, "<sup>1</sup>H)" should be -- 1H) --

Column 96, line 19, "trifluorace" should be -- trifluoroacetic acid --

Column 96, line 42, "6 8.79" should be -- δ 8.79 --

Column 101, line 4, "2.39 (m, 2.24" should be -- 2.39 (m; 2H), 2.24 --

Column 101, line 5, "mile" should be -- m/e --

Column 103, line 62, "8.32 (d, 1H," should be -- 8.32 (d, 1H), --

Column 105, line 30, "(, 11H)" should be -- (m, 1H) --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 106, line 32, "CH<sub>2</sub>C<sub>12</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub> --

Column 107, line 29, "3methoxy" should be -- 3-methoxy --

Column 107, line 58, "(s, 2H), 2H)," should be -- (s, 2H), --

Column 107, last line, "2H), 7.52 (m, 7H), 489.1." should be -- 2H). MS APCI-pos, M+1=489.1. --

Column 108, line 49, "NH<sub>4</sub>OH," should be -- NH<sub>4</sub>OH, --

Column 109, line 30, "about 1 of" should be -- about 1/2 of --

Column 109, line 38, "mmol) 50" should be -- mmol) in 50 --

Column 109, line 55, "4.33 (, 11H)," should be -- 4.22 (m, 1H), --

Column 109, lines 57-58, "1.70-1.77 (n, 11H)," should be -- 1.70-1.77 (m, 1H), --

Column 110, line 66, "H<sub>2</sub>O" should be -- H<sub>2</sub>O --

Column 111, line 9, "H<sub>2</sub>O" should be -- H<sub>2</sub>O --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 111, line 9, "dried" should be -- dried --

Column 111, line 30, "8.12 (s, 2H)," should be -- 8.12 (s, 1H), --

Column 112, line 8, "22 ml," should be -- 22 mL, --

Column 112, line 43, "S 8.57" should be -- δ 8.57 --

Column 113, line 48, "arid" should be -- and --

Column 113, line 62, "7.65 (d, 1H," should be -- 7.65 (d, 1H), --

Column 114, line 46, "8.39 (d, 1H," should be -- 8.39 (d, 1H), --

Column 115, lines 20-21, "7.39 (M, 1H)," should be -- 7.39 (m, 1H), --

Column 115, line 35, "8.61 (d, 1H," should be -- 8.61 (d, 1H), --

Column 116, line 1, "8.68 (d, 1H," should be -- 8.68 (d, 1H), --

Column 116, line 2, "8.48 (d, 1H," should be -- 8.48 (d, 1H), --

Column 117, line 28, "8.43 (d, 1H," should be -- 8.43 (d, 1H), --

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INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 118, line 29, "8.21 (s, 111)," should be -- 8.21 (s, 1H), --

Column 118, line 29, "7.24 (d, 111)," should be -- 7.24 (d, 1H), --

Column 118, lines 29-30, "6.76 (m, 1H1)," should be -- 6.76 (m, 1H), --

Column 118, line 30, "3.56 (m, 21H)," should be -- 3.56 (m, 2H), --

Column 118, line 31, "2.24 (s, 1H), 2.13 (m, 1H)" should be  
-- 2.24 (s, 6H), 2.13 (m, 2H) --

Column 118, lines 65-66, "2.37 (s, 13H)," should be -- 2.37 (s, 3H), --

Column 120, line 30, "8.66 (d, 1H," should be -- 8.66 (d, 1H), --

Column 120, line 65, "8.26 (d, 1H," should be -- 8.26 (d, 1H), --

Column 121, line 29, "8.66 (d, 1H," should be -- 8.66 (d, 1H), --

Column 121, lines 64-65, "8.33 (d, 1H, 8.00 (d, 1H," should be  
-- 8.33 (d, 1H), 8.00 (d, 1H), --

Column 121, line 66, ".25 (m, 1H)," should be -- 7.25 (m, 1H), --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 122, line 63, "t1<sub>6</sub>-DMSO" should be -- d<sub>6</sub>-DMSO --

Column 122, lines 64-65, "8.29 (d, 1H, 8.03 (d, 1H," should be -- 8.29 (d, 1H), 8.03 (d, 1H), --

Column 123, lines 29-30, "8.33 (d, 1H, 8.00 (d, 1H," should be -- 8.33 (d, 1H), 8.00 (d, 1H), --

Column 124, line 25, "8.66 (d, 1H," should be -- 8.66 (d, 1H), --

Column 124, line 26, "8.28 (d, 1H," should be -- 8.28 (d, 1H), --

Column 124, line 27, "7.55 (d, 1H," should be -- 7.55 (d, 1H), --

Column 125, line 16, "20 ml" should be -- 20 mL --

Column 126, line 55, "1-[5-" should be -- 1-{5- --

Column 127, line 28, "6.79 (d, 1H," should be -- 6.79 (d, 1H), --

Column 129, line 31, "6.75 (d, 1H," should be -- 6.75 (d, 1H), --

Column 130, line 31, insert "2.35 (s, 3H)." between "2.38 (s, 3H)" and "LRMS"

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 132, lines 9-10, "7.70 (d, 1H, 7.19 (d, 1H," should be  
-- 7.70 (d, 1H), 7.19 (d, 1H), --

Column 132, line 11, "2.5 (s, 3H)." should be -- 2.35 (s, 3H). --

Column 133, line 40, "6.75 (d, 1H," should be -- 6.75 (d, 1H), --

Column 134, line 34, "3.15 (br d, 1H," should be  
-- 3.15 (br d, 1H), --

Column 135, line 33, "6.79 (d, 1H, 6.75 (d, 1H," should be  
-- 6.79 (d, 1H), 6.75 (d, 1H), --

Column 136, line 21, delete the comma after "and"

Column 136, line 52, "ylmethoxy)5-" should be -- ylmethoxy)-5- --

Column 137, Compound 277, the dashed bond at the top of the structure  
should be a solid bond

Column 138, line 26, "1H NMR" should be -- <sup>1</sup>H NMR --

Column 138, line 64, "8.49 (d, 1H," should be -- 8.49 (d, 1H), --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 138, line 65, "7.65 (d, 1H," should be -- 7.65 (d, 1H), --

Column 138, line 67, "(M4 1)." should be -- (M+1). --

Column 139, line 65, "8.20 (s, 1(dd, 2H)," should be  
-- 8.20 (s, 1H), 8.10 (s, 1H), 6.81 (dd, 2H), --

Column 139, line 67, "2.36 (s, 3H), 2H)." should be  
-- 2.36 (s, 3H), 2.19 (m, 4H), 1.90 (m, 2H). --

Column 141, line 35, "Compound 286" should be a heading

Column 143, line 40, "(M4 1)" should be -- (M+1) --

Column 144, line 28, "to the give the" should be  
-- to give the --

Column 144, line 30, "7.96 (d, 11H)" should be -- 7.96 (d, 1H) --

Column 144, line 31, "11H)" should be -- 1H) --

Column 144, line 55, "3.52 (n,11H)" should be -- 3.52 (m, 1H) --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 145, lines 15-16, "6.65 (dd, 1H, 6.51 (d, 1H, 3.96 (mi, 2H)" should be -- 6.65 (dd, 1H), 6.51 (d, 1H), 3.96 (m, 2H) --

Column 146, line 9, "6.58 (d, 1H," should be -- 6.58 (d, 1H), --

Column 146, line 9, "3.57 (d, 1H," should be -- 3.57 (d, 1H), --

Column 146, line 61, "5 7.92" should be -- 8 7.92 --

Column 146, line 61, "7.08 (dd, 1H," should be -- 7.08 (dd, 1H), --

Column 146, line 63, "(dd, 1H," should be -- (dd, 1H), --

Column 147, line 24, "7.25 (mi, 1H)," should be -- 7.25 (m, 1H), --

Column 147, lines 24-25, "7.18 (d, 1H," should be -- 7.18 (d, 1H), --

Column 147, line 25, "6.70 (d, 1H," should be -- 6.70 (d, 1H), --

Column 148, line 6, after "7.76 (t, 1H)," please insert  
-- 7.61 (5, 1H), --

Column 149, line 61, "2-(2-Aziridin-" should be  
-- 1-[2-(2-Aziridin- --

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Column 161, line 25, "(d, 11)," should be -- (d, 1H), --

Column 161, line 49, after "3.90 (s, 3H)" please insert  
-- 2.30 (s, 3H) --

Column 162, line 23, "-O-" should be -- -3- --

Column 162, line 27, please delete the comma after "with"

Column 162, line 65, "8.26 (s, H)," should be -- 8.26 (s, 1H), --

Column 163, line 64, "-carbatic" should be -- -carbamic --

Column 167, line 56, "(1.0 g)" should be -- (1.0 g, --

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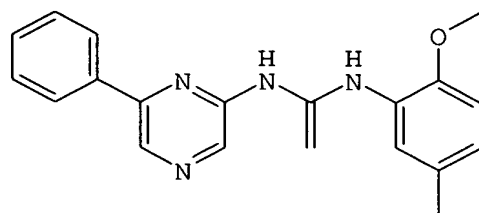
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 169, please replace the structure for Compound 331 and insert therefor



1 - (2-Methoxy-5-methyl-phenyl) -  
3 - (6-phenyl-pyrazin-2-yl) -urea

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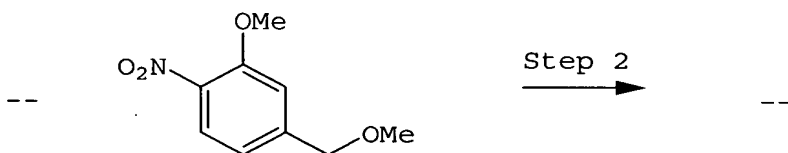
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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,067,506  
DATED : June 27, 2006  
INVENTOR(S) : Kathleen S. Keegan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 171, line 45, after "Step 1" please insert



Column 171, line 52, "Step 1" should be -- Step 3 --

Column 172, line 30, "after "60°C" first occurrence, please insert  
-- before adding 2-methoxy-4-methoxymethylaniline as a solution in 4 mL  
toluene. After stirring for 6 hr --

Column 173, line 21, delete ")." second occurrence

Column 174, lines 13-14, delete "<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>): δ" second  
occurrence

Column 174, line 64, "8.06 (s, 1H," should be -- 8.06 (s, 1H), --

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PATENT NO.: 7,067,506

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 177, line 37, "and the " should be -- and then --

Column 178, line 67, "(-NH3)" should be -- (-NH<sub>3</sub>) --

Column 180, line 46, "4.G8" should be -- 4,08 --

Column 180, line 65, "J7.83" should be -- J=7.83 --

Column 182, line 61, "Methoxy4" should be -- Methoxy-4 --

Column 182, line 64, "4.23 (," should be -- 4.23 (s, --

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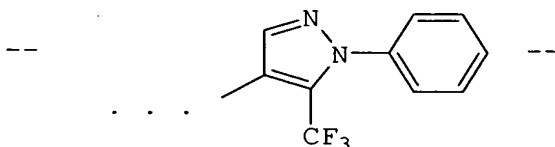
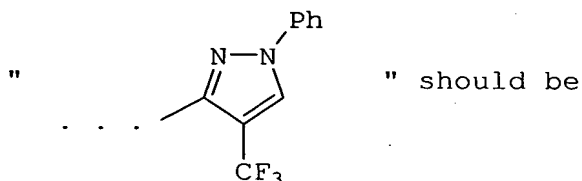
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Column 185, Compound 361, right-hand side of structure,



Compound 186, line 39, "Methoxy4" should be -- Methoxy-4 --

Column 186, line 42, ";7.89" should be -- 7.89 --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 188, line 33, "The,5'" should be -- The 5' --

Column 188, line 35, "Saint Louis, IL" should be  
-- Saint Louis, MO --

Column 189, line 4, "developed" should be -- develop --

Column 189, line 27, delete the comma between "p38" and "MAP"

Column 189, line 56, "Chk 1" should be -- Chk1 --

Column 189, line 60, "Chk 1" should be -- Chk1 --

Column 190, line 37, "minutes" should be -- minute --

Column 192, line 16, delete the hyphen between "in" and "the"

Column 192, line 60, "CO<sub>2</sub>R<sup>3</sup><sub>1</sub>," should be -- CO<sub>2</sub>R<sup>3</sup>, --

Column 194, line 3, delete "null,"

Column 194, line 33, "C<sub>2</sub>R<sup>25</sup>" should be -- CO<sub>2</sub>R<sup>25</sup> --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 195, line 17, delete "are"

Column 195, line 23, "C<sub>2</sub>R<sup>3</sup>" should be -- CO<sub>2</sub>R<sup>3</sup> --

Column 195, line 59, "lease one or more" should be  
-- least one of a --

Column 196, line 53, "OCF<sub>3</sub>" should be -- OCF<sup>3</sup> --

Column 197, line 34, "Hodgkins, lymphoma" should be  
-- Hodgkin's lymphoma --

Column 198, line 32, "SR<sub>1</sub>" should be -- SR<sup>7</sup>, --

Column 199, line 8, insert "is" between "Q'" and "OCH<sub>3</sub>"

Column 202, line 40, insert -- ( -- before "piperidin

Column 203, line 35, "CF<sub>10</sub>" should be -- CR<sup>10</sup> --

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